This document contains information referring to Project OXCART

OXG-3790-62 Copy 7 of 7 3 August 1962

MEMORANDUM FOR THE RECORD

SUBJECT:

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Trip Report - Visit to ACIC, St. Louis, Missouri

REFERENCE:

Memorandum for the Record/OXCART Charts/

OXC-3742-62, dated 20 July 1962

		a consequence of discussion	25
		ca 26 July 1962 a str	iff visit was made to
A CIC		ving been briefed on the OX	
		oblem, felt a visit to ACIC	
*	The second secon	accompanied by	2
risite	d ACIC on 31 July	and I August 1962.	
	2. An:	agenda was arranged by	(see Attachment 2
An)		ite schedule was adhered to	
		ach day's time allotment.	
	3. Fol	lowing is a brief resume of	the various briefines
end w		that transpired during the	——————————————————————————————————————
	And the same of th		
	(a) a	dvised on arrival that the vi	sit was ostensi-
	* *	group under AFCIN-1 spon	
	*	a portions of the briefings w	
		ut that sandwiched in were	
		could contribute ultimately	
	OX CART navigati		
	(b) Missions and	Products: A general briefi	ng was rendered
	by		ion and capabili-
	· ·		and the second of the second o
	ties of the ACIC f	acility. He explained the p	roceases of chart
	ties of the ACIC f	acility. He explained the provelopment, evaluation, according	rocesses of chart epiance (or re-,22

USAF review completed.

NASA Review Completed.

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(c) Technical Planning: 25X1 of the Technical Planning Division described ACIC-AFSC-Contractor relations during the development of a weapons system for the USAF. The ACIC assigns an individual as a project officer to work directly with the contractor and the command (s) involved with a weapons system development. Hopefully navigation aid and support proceeds apace with vehicle development in order that a compatible navigation device is in place when delivery is made to the operating unit. Examples of items produced in support of recent weapons systems were: (1) Experimental NAVARHO navigation charts based on the AP series: (2) A plastic hemisphere 25X1 worked on this) stillining piopoint light to show the aircraft's position and heading on a display screen. This proposal was in anticipation of B-70 requirements. (3) Satellite charts were exhibited, and a set was given to the visitors. (d) Requirements Division: 25X1 gave a briefing on the functions of the ACIC Requirements Division. In addition, 25X1 gave the step-bystep procedure whereby a new map, chart, or device comes into being: Requesting Command --- USAF --- ACIC ---

advised that the Tactical Situation Display (TSD) system employed in the F-106 took five to six months for production of the first model. He also explained the mission of the Air Standardization Coordinating Committee. ACIC represents the U. 5. Government in the Committee's activities which are standardizations of navigational aids on a global basis.

Preject Officer --- Lizison --- Test and Evaluation --- Approval --- Production.

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Project Officer for the B-58, discussed the B-58 flight simulator and the transverse grid system. He also stated that a GNC (1:5m) had been printed with with B-58 everlay (similar to the overprinting of the JN series), for use by B-58 crews. It met resistance from SAC's B-56 pilots and navigators, and this approach to charting was terminated. The B-58 employs the overprinted B-56 JN series of charts.

Project Officer for the TSD used in the F-106, explained the TSD system to the visitors. Photos of the system are attached (Attachment B and B₂).

showed two mechanical systems of knee-pad chart helders for navigation in flight. Neither proved practical due to difficulties in handling.

description of the proposed 8 August meeting. ACIC developed a gnomouic computer with which, given two points, the individual can obtain true heading and distance between the two points. A development model was leaned to the visitors. It was learned that two hundred copies are to be built by a contractor.

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The visitors were also shown the first example of a JNC (Scale 1:3m) covering the continental United States. Four plates covering the Artic polar region have been in production for several months. The JNC just developed (JNCX-5A (1) N) is being sent to SAC at the end of August for test and evaluation. Production of the 1:3m scale chart will probably not come until Fiscal Year 1964. It appeared to the visitors that the 1:3m scale lent itself to the requirements of the OXCART Program.

The visitors were also shown the chart developed for NASA's Mercury Project. The Mercury Orbit Chart (MOC) is designed to provide orientation to the astronaut during orbit and is the only chart carried by him. A copy of the chart, in the form carried on a flight, was procured from ACIC and is available in OSA/Intelligence Staff files. Attached is a copy of MOC-4 (Attachment C). Note: NASA prehibits dissemination of the MOC charts, and the attached copy should not be removed from the OSA area.



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(e) The second day's schedule commenced with a	brief-	
ing by	The	25X1
project covered ACIC's exploitation of sensitive	photo-	
graphic materials. It was primarily a historical	resume	
of ACIC activities from 1955 to the present year.	It was	
gratifying to see how sensitive materials, most of	of which	
were acquired by OSA, are being used in the mag charting areas.	oping and	
A walk-through briefing was conducted through th	e Missile	
Support Division by its chief,	Various	25X1
advanced and sophisticated equipment was demon	etrated.	
(f) The balance of the visit was devoted to exami	mation of	

(1) A Pictorial Situation Indicator (PSI) developed by for use in the F-108 aircraft. The PSI used 35mm slides to present chart information on a 5 inch screen.

these were:

various devices, proposals, graphics, charts, etc., which could be adopted for use in the OXCART Program. Among

- (2) A Herizontal Tactical Indicator, similar to the PSI above. Neither device has been adopted by the USAF.
- emtation were also exhibited. Most of the charts are in the inventory of ACIC and were known to the visitors. It was learned at this time that the Aerospace Chart (ASC) series was being expanded to cover all the continents. Interim editions of ASC-2, 3, 4, and 5 will be available at the end of August. It is felt that ASC-2, along with the ASC-1 (currently being used in project) will be suitable for CXCART briefing purposes. The production schedule for the 1:3m JNC referred to above was also obtained. Copies will be obtained for use in the field.
- (4) A proposal for tape recorders as a substitute for graphics was also advanced.



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	4,	la	conclusion,	it can b	e said that	the ce	operat	lon and
hospitality	extended	by		and the	personne!	at AC	IČ was	outstand.
ing. ACIC	is eager	an	d willing to	develop	navigation	aids f	or eny	weapons
system.					•		,	

- 5. After review of all navigation aids, both in use and proposed, it is felt that the following avenues should be explored:
 - (a) A 35mm viewer type method of map display should be developed as primary in-flight nevigation aid.
 - (b) A flight plan recorder should be developed which could serve as an alternate in-flight navigation aid, backed up by graphics.
 - (c) Field, contractor, and INS people should be asked to test the various graphics in being to determine which is most feasible for cockpit use.
 - (d) A method of carrying graphics should be developed which will provide easy access to the pilot and yet be easily destroyed.

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Intelligence Staff/OSA

Attachments:

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A -- Agenda

B .. Photos of TSD System

By - Photos of TSD System

G .. Mercupy Orbit Chart

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ORIGINAL DOCUMENT MISSING PAGE(S):

Attachment MKSing